85055

Page 1

May-31-12 3:42:31 PM

Item ID:

D212-664-101

QC: _____

Accept

N900040100

Setup Start

Revision ID:

Crosstube Fwd Item Name:

Required Date: 14/06/2012

31/05/2012 Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Start Date:

Approvals:

Process Plan: MLJ

Date: 12/06/0 | Tooling:

Date:

Run

Date:

SPC (Y/N):

Date:

Stop

Operation Sequence ID/ **Work Center ID** Draw Nbr **Revision Nbr**

Description

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Reject **Qty** Qty

Reject

Number Stamp

D212-664-141

Rev D (DEO)

0.00

100

DOCUMENT CONTROL

DC

100

Memo

0.00

MLJ 12/06/19

Document Control

Photocopy bluefile and create labels as per PPP D212-664-101 CHG005 V7 W6/15

110

120

110 Packaging

Pick Kit Packaging

Memo

0.00

0.00

Packaging

0.00

120 CNC Bend 2

BENDING MACHINE - CROSSTUBES

0.00

CNC Alpha 160 Bender

Bend tube as per Dwg D212-664-141 using CNC bender program 212-fw and

Folio D212-664-101

12-6-8

Dart Aerospace Lt	a
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	bao								
W/O:			V	ORK ORDER CHANGE	S				4
DATE	STEP	PRO	CEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval 1 QC Inspector
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				<u>,</u>					
Part No	:	PAR #:	Fault Ca	tegory:	NCR: Yes	No DQ	A:	Date: _	
R		esolution:	Disposit	ion:	QA: N/C CI	osed:	· · · · · · · · · · · · · · · · · ·	Date: _	
NCR:		V	VORK OR	DER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC	12411	Corrective Action Section	n B Sign 8		cation	Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Date	Secti	ion C	Chief Eng	QC Inspector
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May-31-12 3:42:31 PM

Required Date: 14/06/2012

Item ID:

D212-664-101

Accept

N900040100

Setup Start

Revision ID:

Start Date:

Item Name:

Crosstube Fwd

31/05/2012 Start Oty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

QC:

Date:

SPC (Y/N):

Date:

Tool #

Plan

Code

Stop

Sequence ID/ **Work Center ID**

130

130

QC

Operation **Description**

QC15- Crosstube Dimensional Check

Set Up/ **Run Hours**

0.00

Tool ID

Accept Qty

Reject Qty

Reject Insp.

Number Stamp

Quality Control

Memo

140

Crosstubes

Crosstubes

Crosstubes

Memo

0.00

0.00

1-Drill pilot holes in tube as per Dwg D212-664-141 using drill Jig DT8548 & DT8549, using drill table DT8577, set-up towers in hole #7 as per OSI 10

2-Ream hole to finish size in tube as per Dwg D212-664-141using drill Jig DT8548 & DT8549. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes.

3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-141

4-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D212-664-141

12-6-8

17-6-11

W/O:			WC	RK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA:	·	Date:	
	Re	esolution:	Disposition	າ:	QA: N/C CI	osed:		_ Date:	
NCR:			WORK ORDI	ER NON-CONFORM	ANCE (NCR	1)		-	
DATE	STEP	Description of NC	<u> </u>	<u> </u>	tion B	Verifica	tion	Approval	Approval
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Work Order ID 85055

Page 3

May-31-12 3:42:31 PM

Required Date: 14/06/2012

Item ID:

D212-664-101

Accept

N900040100

Setup Start

Revision ID:

Item Name: Start Date:

Crosstube Fwd

31/05/2012

Start Otv: 1.00 Rea'd Otv: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Stop

Sequence ID/ Work Center ID

Operation Description

Set Up/ **Run Hours**

Tool # Plan

Accept Code Qty

Reject Qty

Reject Insp. Number Stamp

150

Crosstubes Chemical Conversion

0.00

150

HandFXtube

Memo

0.00

Hand Finishing Crosstubes

Chemical Conversion Coat within 24 hours of bending and drilling

160

160

QC

Memo

Quality Control

170

Outsource process - NDT per QSI038 4.1

QC5- Inspect part completeness to step on W/O

0.00

170

Outsource2

Memo

0.00

Outsource process - NDT

Liquid Penetrant Inspection as per QSI 038

Issue P/O: LPI as per ASTM 1417 Level 2

Attach copy of NDT results to work order

12-06-12

W/O: 8055		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Date Qty		Approval Chief Eng / Prod Mgr	Approval QC inspector					
		Step# 150 to be moves to offer step# 170; ANSADD A OCTIONALINE. Due to containing on tubes	B	12.Q., V		l May	aloula				

Part No: D 212-664-101 PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:		·	WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B	Verification	Approval	Approval							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector						
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Page 4

May-31-12 3:42:31 PM

Required Date: 14/06/2012

Item ID:

D212-664-101

Accept

N900040100

Setup Start

Revision ID:

Item Name: Start Date:

Crosstube Fwd

31/05/2012

Start Otv: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date: Date: Run

Stop

Sequence ID/ Work Center ID

Operation Description

OC:

Set Up/ **Run Hours** Tool#

Accept Oty

Plan

Code

Reject Oty

Reject Number Stamp

Insp.

120

Packaging

Memo

Req'd Oty: 1.00

0.00

0.00

Packaging

Packaging

Receive & Inspect for Damage & Mat'l Certs

Ensure copy of NDT results attached to work order.

Date:

190

180

100

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

Memo

Inspect for damage & ensure results are as per Dwg D212-664-141

191 - oherwh wat as for abyons 192 - ac 7. Mld.06.13 (1)

W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	:	PAR #:	Fault Cat	egory:	NC	R: Yes	No DQ	 A:	Date:			
Resolution: Disposition: Q/												
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DATE	STEP	Description of NC		Corrective Action	Section B		Verific	cation	Approval	Approval		
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H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Page 5

May-31-12 3:42:31 PM

Required Date: 14/06/2012

Item ID:

D212-664-101

Accept

N900040100

Setup Start

Revision ID:

Item Name: **Start Date:**

Crosstube Fwd

31/05/2012

Start Qty: 1.00 **Reg'd Qty:** 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Run

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID** Operation Description

SprayPaint

Set Up/ **Run Hours** Tool ID

Tool # Plan Code Accept

Reject

Insp.

200

200

SprayPaint

Memo

Spray Painting per QSI005 4.2

0.00

0.00

Qty

Reject Qty

Number Stamp

Spray Painting

1-Prime inside and outside crosstube as per QSI 005 4.2

2-Paint outside crosstube as per DEO D212-667-141 with White Imron as per QSI 005 4.2

PRIME: 121746

Start Time: 6:00 Fininsh Time: 7:00

PAINT: 120985 Start Time: 3:30 Finish Time: 4,30

210

Quality Control

Memo

0.00

Then, Wrap in plastic bag to protect from scratches

W/O:			W	ES								
DATE	STEP	PROC	CEDURE CH		Ву	Date Qt	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
Part No	:	PAR #:	Fault Cat	egory:	NCR: Yes	No DQA:	Date: _					
	R	esolution:	_ Dispositi	on:	_ QA: N/C Cld	osed:	Date: _	•				
NCR:		W	ORK OR	DER NON-CONFORM	ANCE (NCR)						
DATE	STEP	Description of NC Section A	Initial Action Description Chief Eng Chief Eng		ion B Sign & Date	Verificatio Section C	n Approval Chief Eng	Approval QC Inspector				
			Chief Eng	Chief Eng	Date							
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Page 6

Insp.

Pick Kit

Memo

0.00

0.00

Packaging Packaging

240

Quality Control

W/O:			W	ORK ORDER CHANG	iES					
DATE	STÉP	PRO	CEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	gory:	_ NCR	: Yes N	lo DQA	١:	_ Date: _	
	R	esolution:	Dispositio	n:	QA:	N/C Clo	sed:		Date: _	·
NCR:		\	WORK ORD	ER NON-CONFORM	ANCE	(NCR)				
DATE	STEP	Description of NC	Corrective Action Section B				Verific	ation	Approval	Approval
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May-31-12 3:42:31 PM Item ID:

D212-664-101

Accept

N900040100

Setup Start

Revision ID:

Crosstube Fwd Item Name:

Required Date: 14/06/2012

Start Date: 31/05/2012 Start Qty: 1.00 **Req'd Qty:** 1.00

Cust Item 1D:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

250

QC4-100% Inspect kits for completeness

Operation

Description

Set Up/ **Run Hours** Tool ID

Tool# Plan Code

Accept Qty

Reject Reject Qty Number Stamp

Insp.

250

Quality Control

260

Packaging

Packaging

Packaging

Memo

Memo

0.00

Identify and pack for shipping as per PPP D212-664-101

270

QC21- Final Inspection - Work Order Release

0.00

Memo

MUJ 12/06/19 12.06-19

Quality Control

0.00

W/O:			W	ORK ORDER CHANGE	S	• •			,
DATE	STEP	PROC	EDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	_ Fault Cat	tegory:	NCR: Yes	No DQ	A:	Date: _	<u> </u>
	Resolution: Disposition:				QA: N/C CI	osed:		Date: _	
NCR:		W	ORK OR	DER NON-CONFORMA	NCE (NCR	1)			,
DATE	STEP	Description of NC		Corrective Action Section		Verific		Approval	Approval
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W 10 1 ID 0505

Work Order ID: 85055

Parent Item:

.D212-664-101

Parent Item Name: Crosstube Fwd

85055

D212-664-101

JLM

Start Date: 31/05/2012

Required Date: 14/06/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:E04.02.16ReformatKJ/DS

IPP Rev:F 06-03-29 Remove Coments on Pick List JLM

IPP Rev:G 07-04-30 As per Rev C

C

IPP Rev:H

11.04.26 inspection strip ecn 11-549 EC verified by:DD

Component Item ID/ Item Name	Replacement Item ID	Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
D212-664-101TRN		Manufactured	No			110	Each	0.0000	1 1		<u></u>	
D212-664 Crosstube Turning Detail	4-101TF	N		B	?S060				**	<i></i>	m6	- 2-6-8
D3595-063-450		Manufactured	No			230	Each	179.8095	4	4.210526	મ્∵≃)	01-10-00
D3595-06	33-450								**		Af	12-6-18

RUBBER CUSHION

Loc Qty	Loc Code	
60		_
60		(4)
109.7		
1.7		
108		
10.109474		
2		
6		
0.56		
0.2		
0.349474		
1		
	60 60 109.7 1.7 108 10.109474 2 6 0.56 0.2	60 60 109.7 1.7 108 10.109474 2 6 0.56 0.2

Page 1

Dart Aerosp	ace	Ltd
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W/O:		WORK ORDER (ORK ORDER CHANG	ES					
DATE	STEP	PRO	CEDURE CHA	ANGE	Ву		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	egory:	NCR: Ye	es No	DQ.	\ :	_ Date: _	
	R	esolution:	Disposition	on:	_ QA: N/C	Clos	ed:		Date: _	
NCR:		V	WORK ORDER NON-CONFORMANCE (NCR) Corrective Action Section B		CR)					
DATE	CTED	Description of NC					Verific	ation	Approval	Approval
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Picklist Print

May-31-12 3:42:35 PM

Work Order ID: 85055

Parent Item:

D212-664-101

Parent Item Name: Crosstube Fwd

85055

D212-664-101

Start Date: 31/05/2012

Required Date: 14/06/2012

Start Qty: 1.00

Required Qty: 1.00

MS21920-25

Clamp(per MIL-DTL-8783C)

Purchased

Manufactured

Manufactured

No

No

No

220

Each

123.0000

**

**

AB 12-6-18

A 12-6-18

Location	Loc	<u>Oty</u>	Loc Code	•	
LG050		75			
116264		2			
117998		4			
118142		4			
119339		2			
119746		2			
120475		7			
120920		54			
LG051		48			_
121583		48			(4)
	220	Each	40.0000	2	2

D2893-1

D2893-1

2.75 Support

Location Loc Oty Loc Code LG 16 83056 16 LG052 24 2 20 82228 2

240

33.0000

Each

Location Loc Qty Loc Code ST042 33 78933 6 81881 17 83582 10

May-31-12 3:42:35 PM

Shop Packet Print

Page 2

Duit ACIOSDUCE Eta	erospace Ltd
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W/O:			WO	RK ORDER CHANGE	S				,
DATE	STEP	PRO	CEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		Verific		Approval	Approval
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Work Order ID: 85055

Parent Item:

AN6-35A

D212-664-101

Parent Item Name: Crosstube Fwd

85055

Location

342

ST342

D212-664-101

121181

120187

Start Date: 31/05/2012

Required Date: 14/06/2012

Start Qty: 1.00

Required Qty: 1.00





	AN6-36A		
8	*AN	B=36A*	
	Bolt		

Purchased

Purchased

NAS1149D0663J Purchased

No

No

240

Each

Loc Qty

Loc Code

50 50 24 24 240 Each

84.0000

**

**

MS210421-6		
*M\$2104210 *M\$21	N42I	6*

Purchased

No

No

Location Loc Qty ST342 84 118422 2 119449 120187 8 73 120423 240 Each

Loc Code

648.0000



Location Loc Qty Loc Code ST300 648 117677 25 118384 3 118927 48 119075 372 120308 200 240 Each 0.0000

Washer #

AN960JD616

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Shop Packet Print

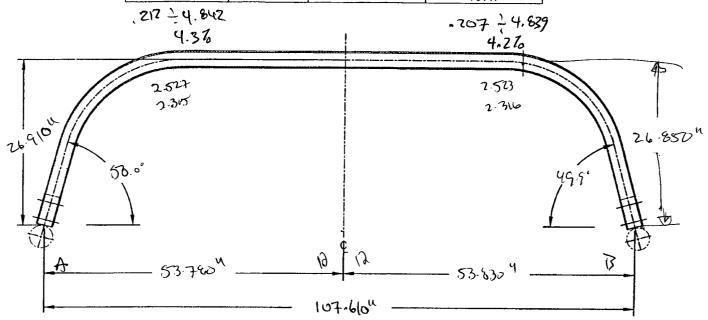
Page 3

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W/O:	-		W	ORK ORDER CHANGES					
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NCR:		V	VORK ORI	DER NON-CONFORMAN	CE (NCF	₹)			
DATE	STEP	Description of NC	Initial	Corrective Action Section	Sign (cation	Approval	Approval
		Section A	Chief Eng	Action Description Chief Eng	Date		ion C	Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	85055
Description: Crosstube High Fwd (205/212/412)	Part Number:	D212-664-101
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 1

Required Dimension	Min	Max
Height	26.79	27.05
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.7



Site Az 4.26 Crushing P 12 Posse	122 2 (1.2	7	\bigcirc
2 R 2 4.2% Crushing P 12 Passe	AZ YU	10 chushin	
	120 R 2 4.	-6 Crushim	PALLED

QC15 Inspection	8
Date	17/06/08

KJ/JM
KJ/JM . A
KJ 94 2

											
W/O:			W	ORK ORDER CHANGI	ES						
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Item	Qty -141	Qty -141B	Part Number	Description
1	Х		D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
2		Х	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	1	1	D6005-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	_ 4	4	D3595-063-450	RUBBER CUSHION
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

С

В

- 1) MATERIAL: MANUFACTURED FROM D6005-128 FINISHED LENGTH = 126.514±0.020
- CHEMICAL CONVERSION COAT PER DART OSI 005 4 1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2
- PAINT OUTSIDE PER DART QSI 005 4.2 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- UNITS: INCHES UNLESS OTHERWISE NOTED
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS
- WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664) D212-664-141B = 33.6 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING
- 13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN TO **ENGINEERING UNCONTROLLED COPY** SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDER NO. 85055 MCJ

12/06/01

REMOVED FROM UNDER REVIEW PER

DEO ATTACHED

REFORMAT/REVISE GENERAL NOTES/PART LIST; 09.09.30 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -141B (ZN B4-2, D4-2); REMOVED REF & ADD TOLERANCES (ZN B4-3, C6-3, C8-3 & B6-3); RELOCATED FLAG #6 PER PAR 08-046 (ZN A5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4 REMOVE -851 ABRASION STRIP; ADD MAGNOBOND 07.03.08 6398, CUSHION, REVERSE CLAMPS ADD HOLES FOR COMPATABILITY WITH BHT/AA 05.02.04 SKIDTUBES A NEW ISSUE PH 00.12.12 REV. DESCRIPTION BY DATE DESIGN DART AEROSPACE LTD DRAWN RF HAWKESBURY, ONTARIO, CANADA CHECKED a DRAWING NO REV. D D212-664-141 SHEET 1 OF 4

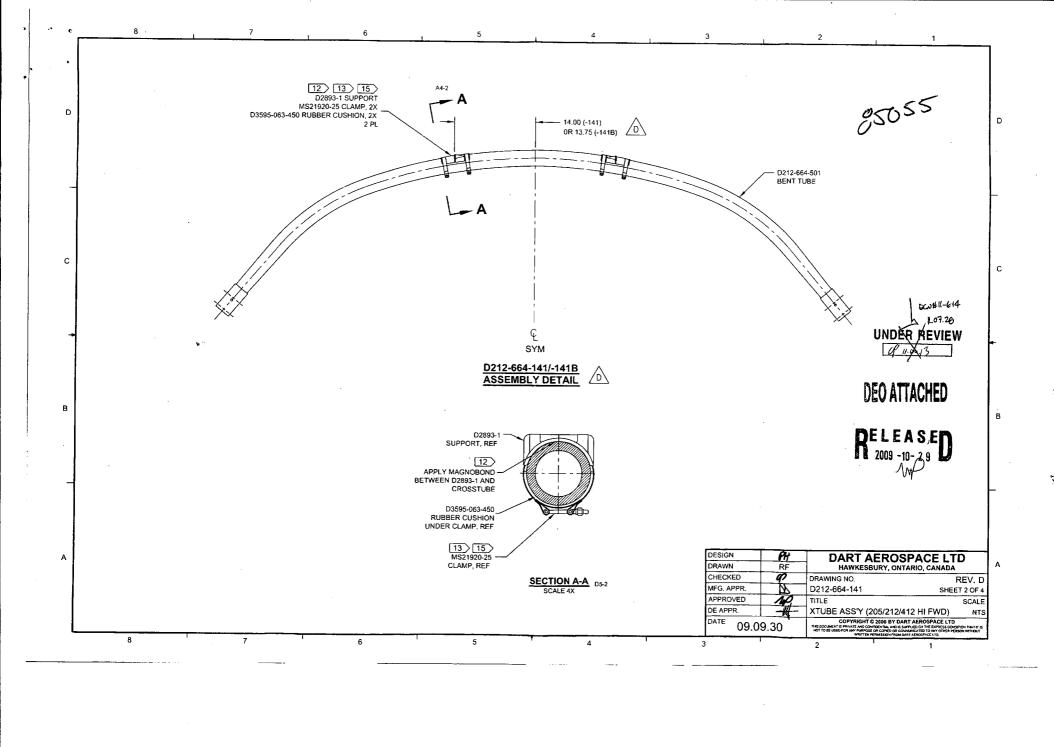
MFG. APPR APPROVED TITLE DE APPR DATE

09.09.30

XTUBE ASS'Y (205/212/412 HI FWD) NTS COPYRIGHT © 2000 BY DART AEROSPACE LTD

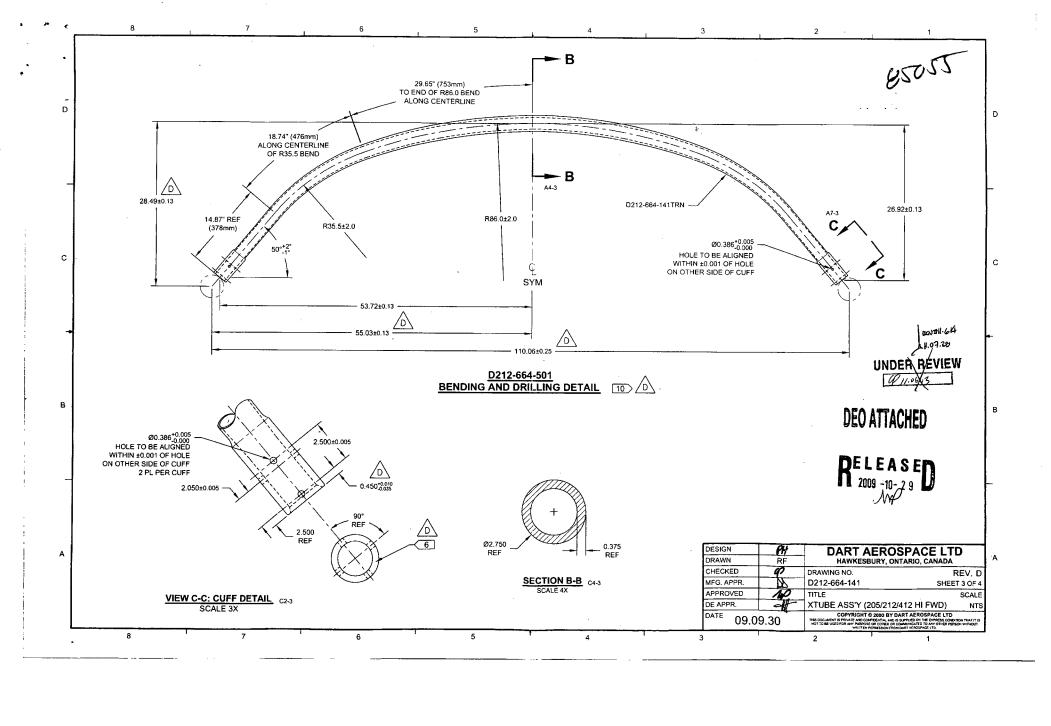
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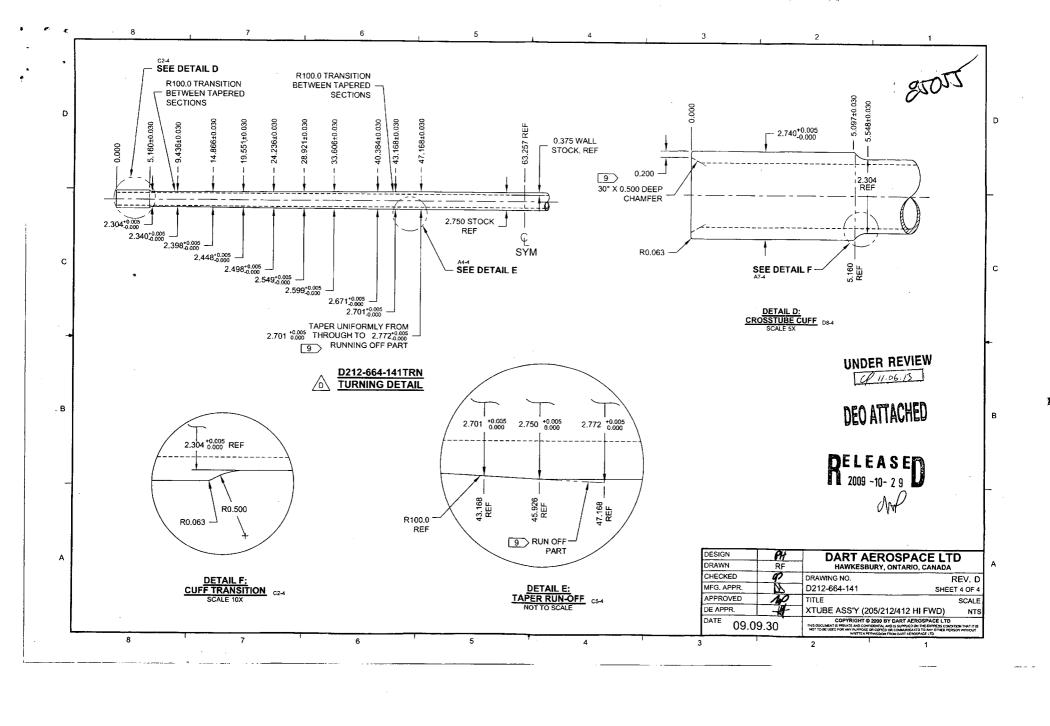


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DRAWING		TITLE		REV. D	DART AEROSPACE LT	D D.E.O. NO.	SHEET NO.	SCALE
D212-66	64-141	XTUBE ASS	SY (205/212/41	2 HI FWD)	ENGINEERING ORDER	D212-664-141-D-1	SHEET 1 OF 2	NTS
DRAWN		\	CHECKED	ip	MFG. APPR. (2	APPROVED MA	DE APPR	***************************************
DATE	11.04	.07	DATE	1), (4), ()	DATE ((.0\.(Z	DATE 11/04/12	DATE 11.04.12	

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

<u> 18:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

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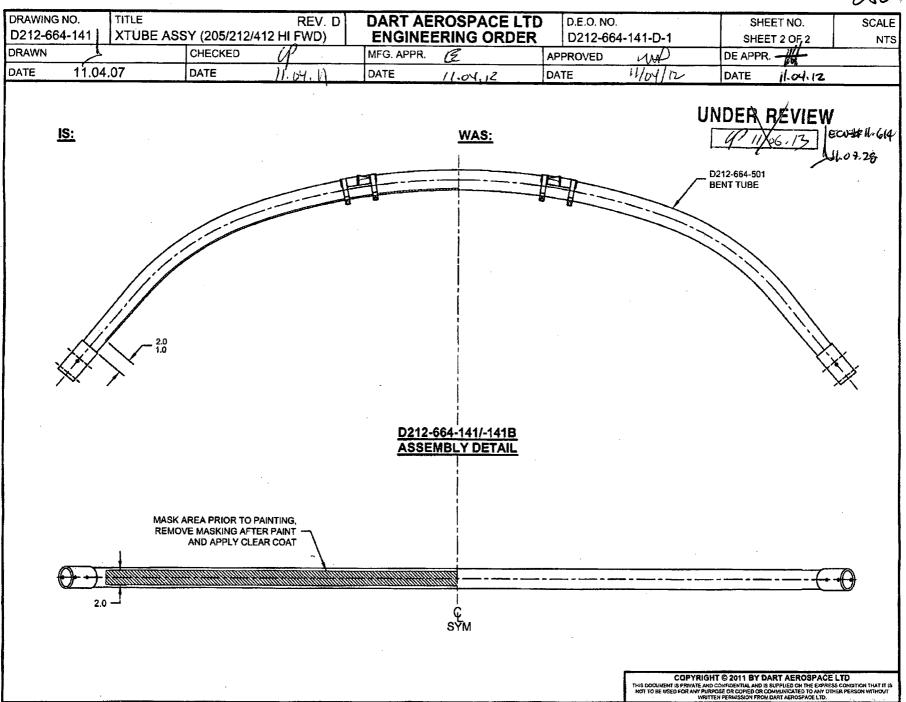
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WRITTEN PERMISSION FROM DART AEROSPACE LTD.

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W/O:			WO	RK ORDER CHANGE	ES					
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DRAWING NO.	TITLE REV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRAWN //	CHECKED A>>	MFG. APPR	PPROVED AND	DE APPR.	
DATE 11.07	.15 DATE 11.07.20	DATE 11.07.21 D		DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL

CHANGE:

IS:

item	Qty -141	Qty -141B	Part Number	Description
			* ,*	
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

			1	
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
	İ			ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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WINDTEN PERSONSION PROVIDENT AEROSPACE LTD.

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	R	esolution:		Disposition:	Q/	NC	Closed:	•	Date: _	**************************************

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Scope of Services

Scope of Services

The agreement of Acuren Group Inc. to perform services extends only to those services provided for in writing. Under no circumstances shall such services extend beyond the performance of the requested services. It is expressly understood and also applied by the owner/operator and are not intended nor can they be construed as made of descriptions, comments and expressions of opinion reflect the opinions or observations of Acuren Group Inc. based on information and assumptions supplied by the owner/operator and are not intended nor can they be construed as made of the owner/operator and expressions and expressions and the owner/operator retains complete responsibility for the engineering, manufacture, recair and use decisions as a result of the owner/operator retains complete responsibility for the engineering, manufacture, recair and use decisions as a result of the presentations or warranties. Acuren Group Inc. is not assuming any responsibilities of the owner/operator retains complete responsibility for the engineering, manufacture, recair and use decisions as a result of the presentations of warranties. Acuren Group Inc. is not assuming any responsibilities of the owner/operator retains complete responsibility for the engineering, manufacture, remain and use decisions as a result of the owner/operator retains complete responsibility for the engineering, manufacture, remain and use decisions as a result of the owner/operator retains complete responsibility for the engineering manufacture.

517/06/12

Standard of Care
Its performing the services provided. Acuren Group Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed a spilled, is made or intended by Acuren Group Inc.

SIGNATURES

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Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17187

Purchase Order Date 6/12/2012 **PO Print Date** 6/12/2012

Page Number 1 of 1

Order From:

ACUREN

2190 SPEERS ROAD OAKVILLE, ON L6L 2X8

Contact Name

Vendor Phone

613 931 1261

Vendor Fax

613 931 2777

Vendor Account Nbr

Buyer

Requisition Nbr Tax Resale Nbr

Terms

Currency

FOB

Brigitte Golden

10127-2607

Net 30

CAD

Destination-Collect

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN HAWKESBURY, ON K6A 1K7 **CANADA**

VC-ACU002



Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1 85	055	Crosstube D212-664-101	6/12/2012 No	1.00	Yours ppd	\$146.7500	S1- 1
_ 85	0054	Crosstube D212-664-101	6/12/2012 No	1.00	Yours ppd	\$146.7500	SI (
3 83	5083	D212-664-101 Crosstube	6/12/2012 No	1.00	Yours ppd	\$146.7500	\$146.
4 83	3082	D212-664-101 Crosstube	6/12/2012 No	1.00	Yours ppd	\$14~7500	\$146.7

PO Total:

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES

Change Nbr:

Change Date: 6/12/2012

5.0 PARTS LIST

5.1 HIGH GEAR CROSSTUBES

Item	(-101	-201	-203	Part Number	Description
	x			D212-664-101	CROSSTUBE INSTALLATION, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
		х		D212-664-201	CROSSTUBE INSTALLATION, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
			х	D412-664-203	CROSSTUBE INSTALLATION, 412 HIGH AFT
1	1			D212-664-141	CROSSTUBE ASSEMBLY, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
2		1		D212-664-241	CROSSTUBE ASSEMBLY, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
3			1	D412-664-243	CROSSTUBE ASSEMBLY, 412 HIGH AFT
				1 7 7 7 7 7	CURRORT
10	2			* D2893-1	SUPPORT RUBBER CUSHION
11	4			* D3595-063-450	CLAMP (OR MS21042-26)
12	4			* MS21920-25	
13	/ 4			AN6-35A	BOLT BOLT
14	/ 4			AN6-36A /	
15	6			MS21042L6	NUT (OR MS21042-6)
16	18			-AN960JD616/	WASHER
				* D2940-1	SUPPORT
		2		* D3595-063-530	RUBBER CUSHION
21				* MS21920-28	CLAMP (OR MS21042-30)
22_		4		AN6-40A	BOLT
23_		2		AN6-41A	BOLT
24		6		MS21042L6	NUT (OR MS21042-6)
25 26	 	18		AN960JD616	WASHER
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30	 		1	* D2896-1	SUPPORT
32	 		2	* D3595-063-570	RUBBER CUSHION
33			4	* MS21920-28	CLAMP
34	+		2	* MS21920-30	CLAMP (OR MS21042-32)
35	 		4	AN6-40A	BOLT
36			2	AN6-41A	BOLT
37	 		6	M\$21042L6	NUT (OR MS21042-6)
38			18	AN960JD616	WASHER
39	 		2	* D3189-1	CHAFING SHIELD
					
50	1			D3428-1 7	PLACARD

^{*}REFERENCE ONLY. PARTS ARE INCLUDED IN D212-664-141/-241 OR D412-664-243 ASSEMBLIES ABOVE NOTE: KITS INCLUDE EXTRA HARDWARE FOR COMPATIBILITY WITH BOTH DART AND BELL/AAI SKIDTUBES.

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